

**REMARKS**

Reconsideration and allowance of this application are respectfully requested. Claims 1, 7, 8, 10, 14-17, 20, 23, 26 and 31 have been amended. Claims 2-6, 9, 11-13, 18, 19, 21, 22, 24, 25 and 27-30 have been cancelled. Claims 1, 7, 8, 10, 14-17, 20, 23, 26 and 31 are now pending in the application. The rejections are respectfully submitted to be obviated in view of the remarks presented herein.

**Rejection Under 35 U.S.C. § 102(b) - Boesch et al.**

Claims 1 and 31 have been rejected under 35 U.S.C. § 102(b) as allegedly being anticipated by Boesch et al. (GB 2 344 007; hereinafter “Boesch”). The rejection is respectfully traversed.

Regarding claim 1, Applicant’s claimed invention relates to a gain control amplification circuit for a terminal equipment in a radio communication system which executes communication between a base station and the terminal equipment. The gain control amplification circuit comprises a gain control amplification section having gain control amplifiers of at least two stages, and control means for controlling the gain control amplifiers. The gain control amplifiers are individually controlled by the control means which comprises a determination circuit, an adder, and a control voltage generation circuit.

Applicant respectfully submits that the disclosure of Boesch does not anticipate the claimed invention. Boesch discloses a power control circuitry as shown in Figure 2 which includes an amplifier (50) controlling the signal gain in an IF section and another amplifier (52)

controlling the signal gain in an RF section. The IF amplifier (50) is controlled based on the strength of received signals, while the RF amplifier (52) is controlled based on commands from a base station.

However, there is no teaching or suggestion in Boesch of control means comprising “a determination circuit for determining an intensity of the reception signal, an adder for calculating a control signal on the basis of a determination result from said determination circuit, and a control voltage generation circuit for controlling said gain control amplifiers on the basis of the control signal,” as Applicant claims. Boesch’s amplifiers (50 and 52) are either fixed gain controlled as set during manufacturing, or controlled by a control system (26) and base station commands. Boesch does not mention a control means comprising a determination circuit, an adder, and a control voltage. At least by virtue of the aforementioned differences, Applicant’s claim 1 distinguishes over Boesch. Applicant’s claim 31 recites a terminal equipment including similar elements, and is also distinguished over Boesch for analogous reasons. Reconsideration and withdrawal of the rejection under 35 U.S.C. § 102(b) are respectfully requested.

**Rejection Under 35 U.S.C. § 103(a) - Boesch et al. in view of Rich**

Claims 7, 8, 10, 14-17, 20, 23 and 26 have been rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Boesch in view of Rich (GB 2 371 283). The rejection is respectfully traversed.

As described above, Boesch discloses a power control circuit, however, Boesch does not teach or suggest a control means comprising “a determination circuit for determining an intensity

of the reception signal, an adder for calculating a control signal on the basis of a determination result from said determination circuit, and a control voltage generation circuit for controlling said gain control amplifiers on the basis of the control signal,” as recited in Applicant’s claim 1.

Rich does not remedy the deficiencies of Boesch. Rich discloses a gain controller (130) of a radiotelephone as shown in Figure 2. The gain controller (130) includes a clamp (200) and a control signal processor (214) with a multiplier or scaler (202) and a summer or shift circuit (204). Examiner has alleged that “[i]t would have been obvious to one of ordinary skill in the art to have incorporated such notoriously old components as disclosed by Rich into the Boesch device or any other device in which their addition was deemed necessary.” However, Rich only discloses the configuration of components of a clamp (200), multiplier or scaler (202), and summer or shift circuit (204) in-line serially as shown in Figure 2. Rich discloses on page 14, lines 23-30 that the first clamp 200 and the second clamp 220 “comprise a crossover circuit which provides continuous output power level control of the transmit signal between the lower range and the upper range of the predetermined range of the output power levels by controlling the first gain control signal 131 and the second gain control signal 133 responsive to the output power level control signal 150 and a crossover threshold signal 151.” Rich neither teaches nor suggests the determination of an intensity of a reception signal with a determination circuit, the determination result being used by an adder for calculating a control signal, and the control signal being used by a control voltage generation circuit for controlling gain control amplifiers. Rich only teaches components as described in the structure as shown in Figure 2, and lacks a control means as Applicant claims. At least by virtue of the aforementioned differences, the


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invention defined by Applicant's claim 1 is patentable over Boesch in view of Rich. Applicant's claims 7, 8, 10, 14-17, 20, 23 and 26 are dependent claims including all of the element of independent claim 1, which, as established above, distinguishes over Boesch in view of Rich. Therefore, claims 7, 8, 10, 14-17, 20, 23 and 26 are distinguished over Boesch in view of Rich for at least the aforementioned reasons as well as for their additionally recited features. Reconsideration and withdrawal of the rejection under 35 U.S.C. § 103(a) are respectfully requested.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

  
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